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1 tgggtgtgtcccttgcctgccaacgttgttgcattttcatgcacattaatctacgtgc
Met Thr Leu Ile Tyr Val
61 cttaatattacaatggccctcaatcacacggattgtactggtaaacattctgttgg
7 Pro Ser Ile Phe Thr Met Val Pro Ser Ile Thr Arg Ile Val Leu Val Asn Ile Leu Leu
121 cgacgttggttggagctgcagtccctcagagacaacagaactgttgcggggagtc
27 Ala Thr Leu Val Leu Gly Ala Ala Val Leu Pro Arg Asp Asn Arg Thr Val Cys Gly Ser
181 aactctgcacatggcggcactcggcggagataaacaccggtaactctgtacaggcag
47 Gin Leu Cys Thr Trp Trp His Asp Ser Gly Glu Ile Asn Thr Gly Thr Pro Val Gln Ala
241 gaaacgttcgacaatccgaaagtactctgtccatgtgagcctggcagaccgtaaccaat
67 Gly Asn Val Arg Gin Ser Arg Lys Tyr Ser Val His Val Ser Leu Ala Asp Arg Asn Gln
301 tctacgactttcgatataatgaatcgataccttagaacggcaatggcagaattttctc
87 Phe Tyr Asp Ser Phe Val Tyr Glu Ser Ile Pro Arg Asn Gly Asn Gly Arg Ile Tyr Ser
361 ccacggacccacctaacaacagaatacatgttaatgtggcattgacgacggtatataatcgc
107 Pro Thr Asp Pro Asn Ser Asn Thr Leu Asn Ser Ser Ile Asp Asp Gly Ile Ser Ile
421 aaccatctctggcatcaacatggcttggccagttcgaaatatacgcggatgtcgaca
127 Glu Pro Ser Leu Gly Ile Asn Met Ala Trp Ser Gin Phe Glu Tyr Arg Arg Asp Val Asp
481 ttaagattactacaatcgatggctaaatggatggcccttggacattgttattcggc
147 Ile Lys Ile Thr Thr Ile Asp Gly Ser Ile Leu Asp Gly Pro Leu Asp Ile Val Ile Arg
541 cgacttctgttaagtactcgtcaaaaagatgtgtgggtgttatcatttttagatgtccctt
167 Pro Thr Ser Val Lys Tyr Ser Val Lys Arg Cys Val Gly Ile Ile Ile Arg Val Pro
601 atgatcccaatggcgaaaaattctctgttgcattaaagagtgcacccatgttacactct
187 Tyr Asp Pro Asn Gly Arg Lys Phe Ser Val Glu Leu Lys Ser Asp Leu Tyr Ser Tyr Leu
661 ccgacgggttcgcaatatgtgacctctggaggagcgtgggtgtggagccaaaaatg
207 Ser Asp Gly Ser Gln Tyr Val Thr Ser Gly Gly Ser Val Val Gly Val Glu Pro Lys Asn
721 ccctgggtatcttgcgcggcccttgcgcggatgtttccatgtacaccac
227 Ala Leu Val Ile Phe Ala Ser Pro Phe Leu Pro Arg Asp Met Val Pro His Met Thr Pro
781 acgacacccagacaatgaagccggccaaatcaataatggggactggggatggcataagccctaa
247 His Asp Thr Gln Thr Met Lys Pro Gly Pro Ile Asn Asn Gly Asp Trp Gly Ser Lys Pro
841 tactctactccgcctggcgatactggatgaacgggatccctgttaacccgggaa
267 Ile Leu Tyr Phe Pro Pro Gly Val Tyr Trp Met Asn Glu Asp Thr Ser Gly Asn Pro Gly
901 agctcggtcaatcatatcggtggatccaaatccactgtggccatctagccccag
287 Lys Leu Gly Ser Asn His Met Arg Lys Asp Pro Asn Thr Tyr Trp Val His Leu Ala Pro
961 gagcctatgtgaaaggaggccattggatattcagcaagcaaaattctatgcacgggtc
307 Gly Ala Tyr Val Lys Gly Ala Ile Glu Tyr Phe Thr Lys Gin Asn Phe Tyr Ala Thr Gly
1021 atggcggtctctcgagggtgagaactatgtttatcaggccatgcagctgataactactatg
327 His Gly Val Leu Ser Gly Glu Asn Tyr Val Tyr Gin Ala Asn Ala Asp Asn Tyr Tyr
1081 ccgtcaagagtgatggcacaagcttgcggatgtggcacaacacccgtggaggccggtc
347 Ala Val Lys Ser Asp Gly Thr Ser Leu Arg Met Trp Trp His Asn Asn Leu Gly Gly Gly
1141 aaacatggtttgcattggcccccaccattaaatgcacccgggttaatacgtatggacttc
367 Gln Thr Trp Phe Cys Met Gly Pro Thr Ile Asn Ala Pro Pro Phe Asn Thr Met Asp Phe
1201 acggaaactctaataattccagccggattgtactataagcagggtggcgcttatttt
387 Asn Gly Asn Ser Asn Ile Ser Ser Arg Ile Ser Asp Tyr Lys Gin Val Gly Ala Tyr Phe
1261 tccaaacagacggacccggagatctacgaggacagtgttgcattgcgttctggcatg
407 Phe Gln Thr Asp Gly Pro Glu Ile Tyr Glu Asp Ser Val Val His Asp Val Phe Trp His
1321 ttaatgtatgtgccatcaagacatatttccggagctcaatttcacggcgaccaaccatct

FIG. 1a

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427 Val Asn Asp Asp Ala Ile Lys Thr Tyr Tyr Ser Gly Ala Ser Ile Ser Arg Ala Thr Ile
1381 ggaagtgtcacaatgacccgatcatacagatgggctggacgtcacgaaatctcaccggaa
447 Trp Lys Cys His Asn Asp Pro Ile Ile Gln Met Gly Trp Thr Ser Arg Asn Leu Thr Gly
1441 tcagcattgataaacctgcacgtcatccacacgagatattcaaatactgaaaacagtggttc
467 Ile Ser Ile Asp Asn Leu His Val Ile His Thr Arg Tyr Phe Lys Ser Glu Thr Val Val
1501 cttcagcaatcattggagcgctccatttacgcaagtggaatgactgttgcacccagcg
487 Pro Ser Ala Ile Ile Gly Ala Ser Pro Phe Tyr Ala Ser Gly Met Thr Val Asp Pro Ser
1561 agtccatcagcatgaccatctctaactgtggtgtgtgagggtctatgcccctactgttcc
507 Glu Scr Ile Scr Met Thr Ile Ser Asn Val Val Cys Glu Gly Leu Cys Pro Ser Leu Phe
1621 gtatcactccgcttcagagactacaacaacccgttgcataagaacgtggcccccgtatg
527 Arg Ile Thr Pro Leu Gln Ser Tyr Asn Asn Leu Val Val Lys Asn Val Ala Phe Pro Asp
1681 gactgcagacaaatccaatcgaaataggagagagcattataccagcagctccggctgtta
547 Gly Leu Gln Thr Asn Pro Ile Gly Ile Gly Ser Ile Ile Pro Ala Ala Ser Gly Cys
1741 caatggacttggaaatcacaactggaccgtcaaaggacaaaaagtcaccatgaaaaact
567 Thr Met Asp Leu Glu Ile Thr Asn Trp Thr Val Lys Gly Gln Lys Val Thr Met Gln Asn
1801 ttcaagtccgggtcacttggccagttcgatatcgatgggtcatactgggtcaatggtcca
587 Phe Gln Ser Gly Ser Leu Gly Gln Phe Asp Ile Asp Gly Ser Tyr Trp Gly Gln Trp Ser
1861 taaaactaaagctattccattcacctgagtatttcgtgggttcaatgagttctgttac
607 Ile Asn *

1921 tgatggggcccttgcagtggtaaaagttagagggactgtcctcgccggcgccaaggaa
1981 gttcatgtttcttagttaatagtatttgtttctctcgtaaaaaaaaaaaaaaaaa
2041 aaaaaaaaaaaaa 2052

FIG. 1b

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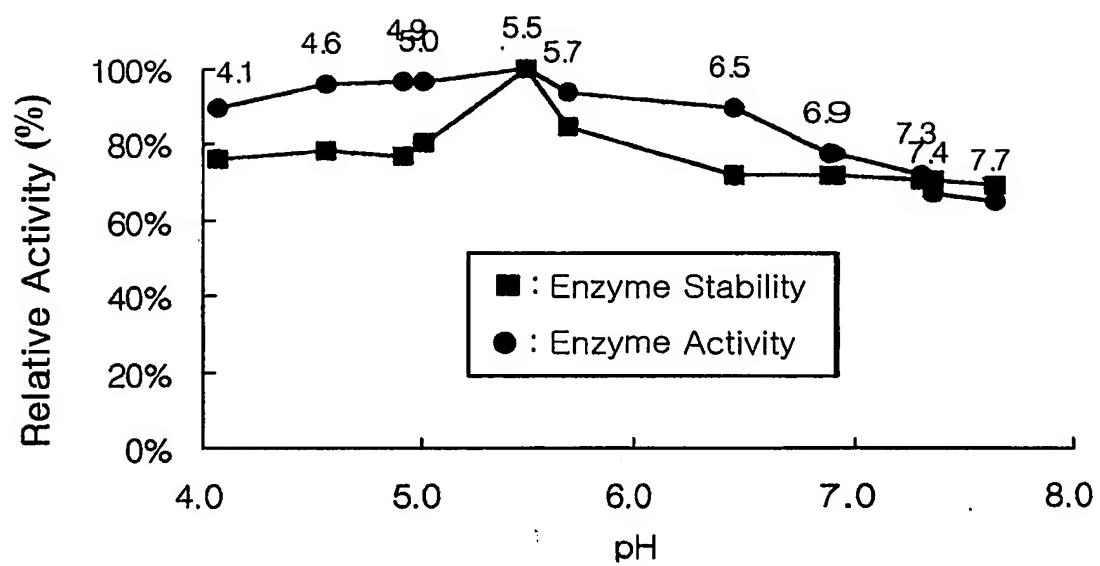


FIG. 2

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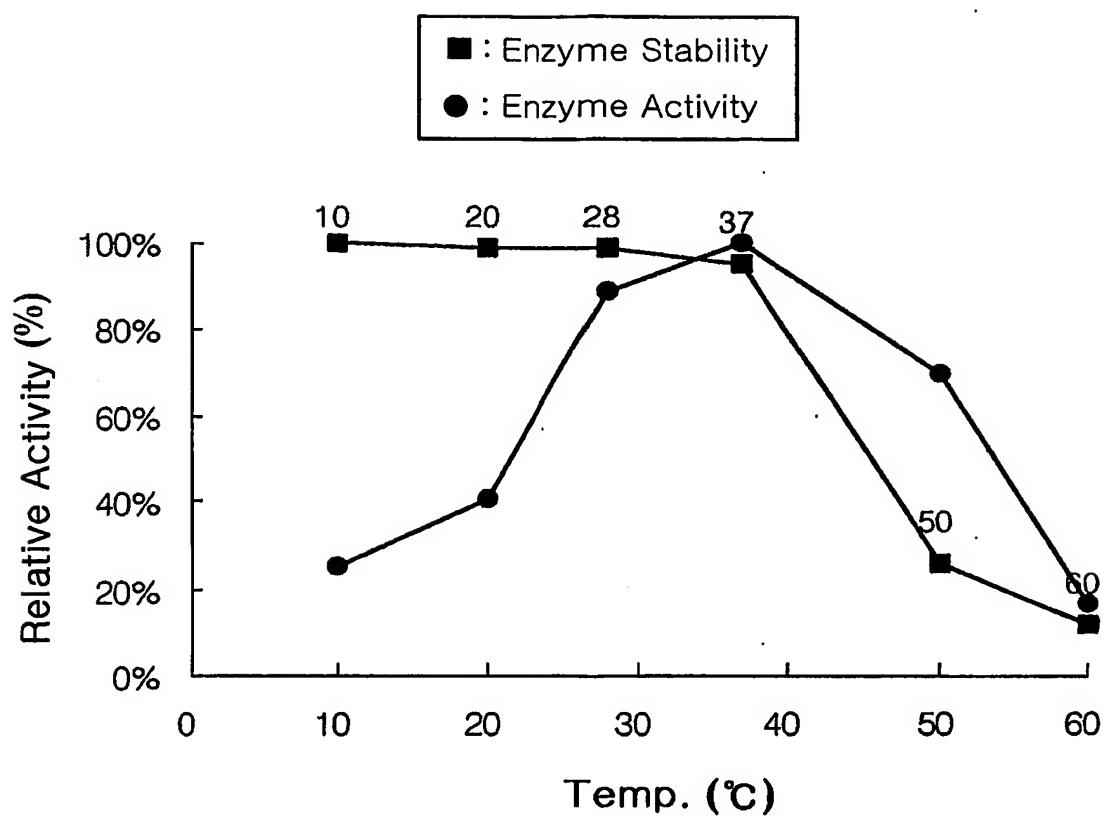


FIG. 3

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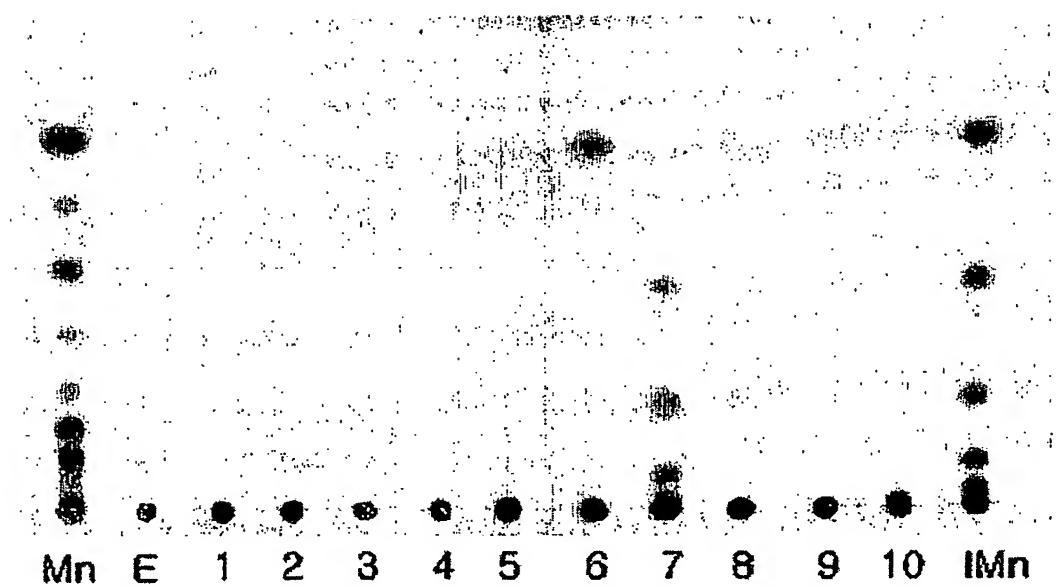


FIG. 4

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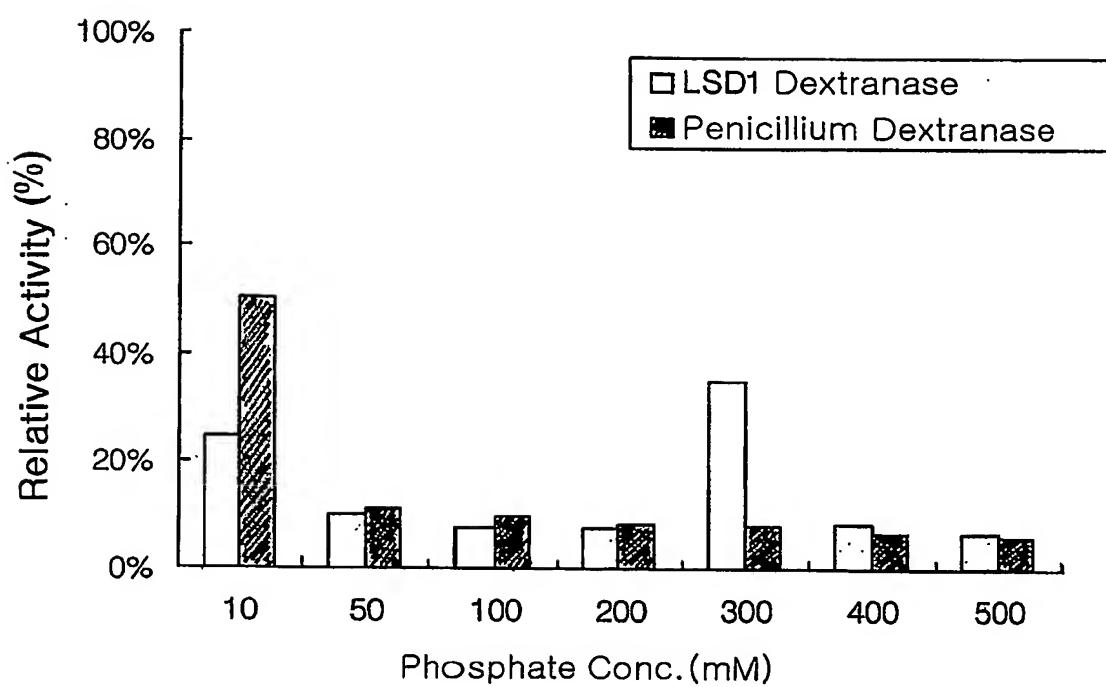


FIG. 5

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